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## PATENT ABSTRACTS OF JAPAN

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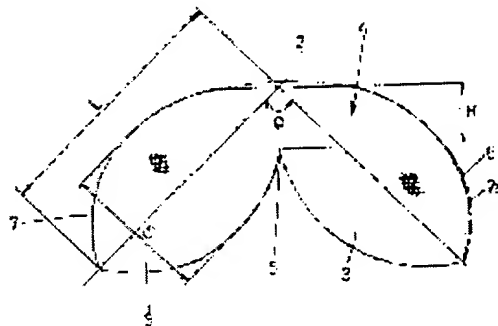
(21)Application number : 08-176499 (71)Applicant : MORISHITA KANO  
 (22)Date of filing : 05.07.1996 (72)Inventor : MORISHITA KANO

## (54) WASHING BAG AND MANUFACTURING METHOD THEREOF

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a bag made of a relatively small amount of mesh cloth into a shape with more closely resembled to a sphere, by sewing together mutually corresponding parts of two sheets of mesh cloth with right and left leaf shaped pieces protruded symmetrically in a prescribed angle on the central part of a straight line edge.

**SOLUTION:** Leaf shaped pieces 3 and 3 symmetrically continued in an angle  $\theta$  (for instance  $90^\circ$ ) on right and left sides at the central part of a straight line edge 2 of band shaped mesh cloth are cut. The two sheets of mesh cloth are overlapped and the outer edge parts are sewn together, but a part with some length is remained unsewn. The base part of a fastener 6 is sewn to the unsewn part to complete this bag for washing which is used taking in/out washing by opening/closing the fastener 6. Since the bag is formed by sewing corresponding parts of two sheets of mesh cloth, sewing work is excellently stably performed, cutting is simple, production man-hour is reduced, and the bag shape can be arbitrarily determined by the opening angle of leaf shaped pieces 3 and 3.



## LEGAL STATUS

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CLAIMS

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[Claim(s)]

[Claim 1] A bag for wash characterized by having sewn a corresponding point on \*\* to right and left of a center section of the straight-line edge, and using as a bag to them two sheets of a piece of a mesh cloth which consists of a leaf shape piece which protruded symmetrically at a predetermined aperture angle.

[Claim 2] A bag for wash according to claim 1 characterized by making an aperture angle of a leaf shape piece into 90-degree order.

[Claim 3] a piece of a mesh cloth of a configuration which formed leaf shape pieces successively from band-like mesh cloth symmetrically at a predetermined aperture angle to right and left of a center section of the straight-line edge -- approaching -- judging -- this piece of a mesh cloth -- a manufacturing method of a bag for wash characterized by to have sewn up an each edge, to have formed a bag and to prepare opening with a closing motion means of predetermined length in said a part of attaching-by-sewing section while sewing a straight-line edge of two sheets on \*\*.

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[Translation done.]

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## DETAILED DESCRIPTION

## [Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] This invention relates to the bag for wash aiming at forming a bag using the piece of two mesh cloths, and its manufacturing method.

[0002]

[Description of the Prior Art] Since the bag for wash which holds the washing conventionally at the time of wash makes an average wash operation received, it is made good [ a globular form ] by it. Then, sequential attaching by sewing of six pieces of pieces of foliaceous mesh cloth is carried out, and the bag of ball approximation is fabricated.

[0003]

[Problem(s) to be Solved by the Invention] In said conventional bag for wash, in order to have made it the globular form more, still more pieces of a mesh cloth needed to be used, but there was a trouble which the attaching-by-sewing section increases and the unequal operation part at the time of wash increases, so that many pieces of a mesh cloth were used. However, when the piece of a mesh cloth \*\* used was lessened, there was a trouble which becomes a configuration far from a globular form.

[0004]

[Means for Solving the Problem] a piece of a mesh cloth which consists of an appropriate leaf shape piece on which was resembled and this invention protruded symmetrically at a predetermined aperture angle to center-section right and left of a straight-line edge -- by sewing two sheets on \*\*, it was comparatively few pieces of a mesh cloth, and a bag more near a globular form was obtained and the conventional trouble was solved.

[0005] That is, to right and left of a center section of the straight-line edge, invention of an object is a predetermined aperture angle, is a bag for wash characterized by having sewn a corresponding point on \*\* and using as a bag two sheets of a piece of a mesh cloth which consists of a leaf shape piece which protruded symmetrically, and makes an aperture angle of a leaf shape piece 90-degree order. moreover, a piece of a mesh cloth of a configuration where invention of a manufacturing method formed leaf shape pieces successively from band-like mesh cloth symmetrically at a predetermined aperture angle to right and left of a center section of the straight-line edge -- approaching -- judging -- this piece of a mesh cloth, while sewing a straight-line edge of two sheets on \*\* It is the manufacturing method of a bag for wash characterized by having sewn up an each edge, having formed a bag and preparing opening with a closing motion means of predetermined length in said a part of attaching-by-sewing section.

[0006] If the aperture angle theta of said leaf shape piece ( drawing 2 ) is made small, decision waste will decrease, but if a formed bag turns into a spindle shape bag and enlarges, since it will become a flat bag, 80 - 110 degrees are suitable for the aperture angle theta.

[0007] Moreover, although a closing motion means of an opening can consider a fastener, Foch, a carbon button, etc., its construction material and configuration where contact other objects during wash anyway and other objects are not damaged are desirable.

[0008] Construction material currently used conventionally can be used for construction material of a piece of a mesh cloth used for this invention. Magnitude of a mesh is selected according to quality of the washing.

[0009] A rate of the major axis L of a leaf shape piece and a minor axis S in this invention is about 1.5:1 to 2.5:1, the length of a straight-line edge is a minor-axis degree mostly, and, as for the distance H of a straight-line edge and the infeed section of a leaf shape piece, about  $\frac{1}{2}$  of the length of a straight-line edge ]  $\frac{1}{2}$  is desirable.

[0010] according to said invention, since the number of pieces of activity mesh cloth is two, attaching by sewing is easy -- and it is stable and workability is good.

[0011] A straight-line edge in this invention does not mean a geometric straight line, and although there is no inconvenience even if it is a convex arc (chain-line graphic display in drawing 1 ) a little, a profit made into the shape of a concave arc is not found.

[0012]

[Embodiment of the Invention] the piece of a mesh cloth to which this invention is a proper angle and comes to form the leaf shape piece of two sheets successively with a straight-line edge -- the corresponding point of two sheets is sewn on and a bag is formed. Moreover, said piece of a mesh cloth prepares opening in some formed bags, and is characterized by attaching a closing motion means to this opening while judging it from a band-like mesh.

[0013]

[Example] The example of this invention is explained about a drawing.

[0014] Using the band-like mesh cloth 1, the leaf shape pieces 3 and 3 are symmetrically formed successively at the aperture angle theta (for example, 90 degrees) to right and left of the center section of the straight-line edge 2, and the piece 4 of a mesh cloth is approached and judged to them. The ratio of the major axis L of said leaf shape pieces 3 and 3 and a minor axis S is about 1.8:1, and the infeed section 5 of the pieces 3 and 3 of a left right-lobe form and the distance H of a straight-line edge are about  $\frac{1}{2}$  of the length of a straight-line edge ]  $\frac{1}{2}$ .

[0015] If some length is covered, 5a is made into the section non-sewn on in part and the base of a fastener 6 is sewn on this section while piling up said pieces 4 and 4 of a mesh cloth and sewing the rim section 7 on \*\*, the bag 8 for wash of this invention will be completed.

[0016] Said bag 8 for wash opens and closes a fastener 6, and the washing is taken in and out and used for it.

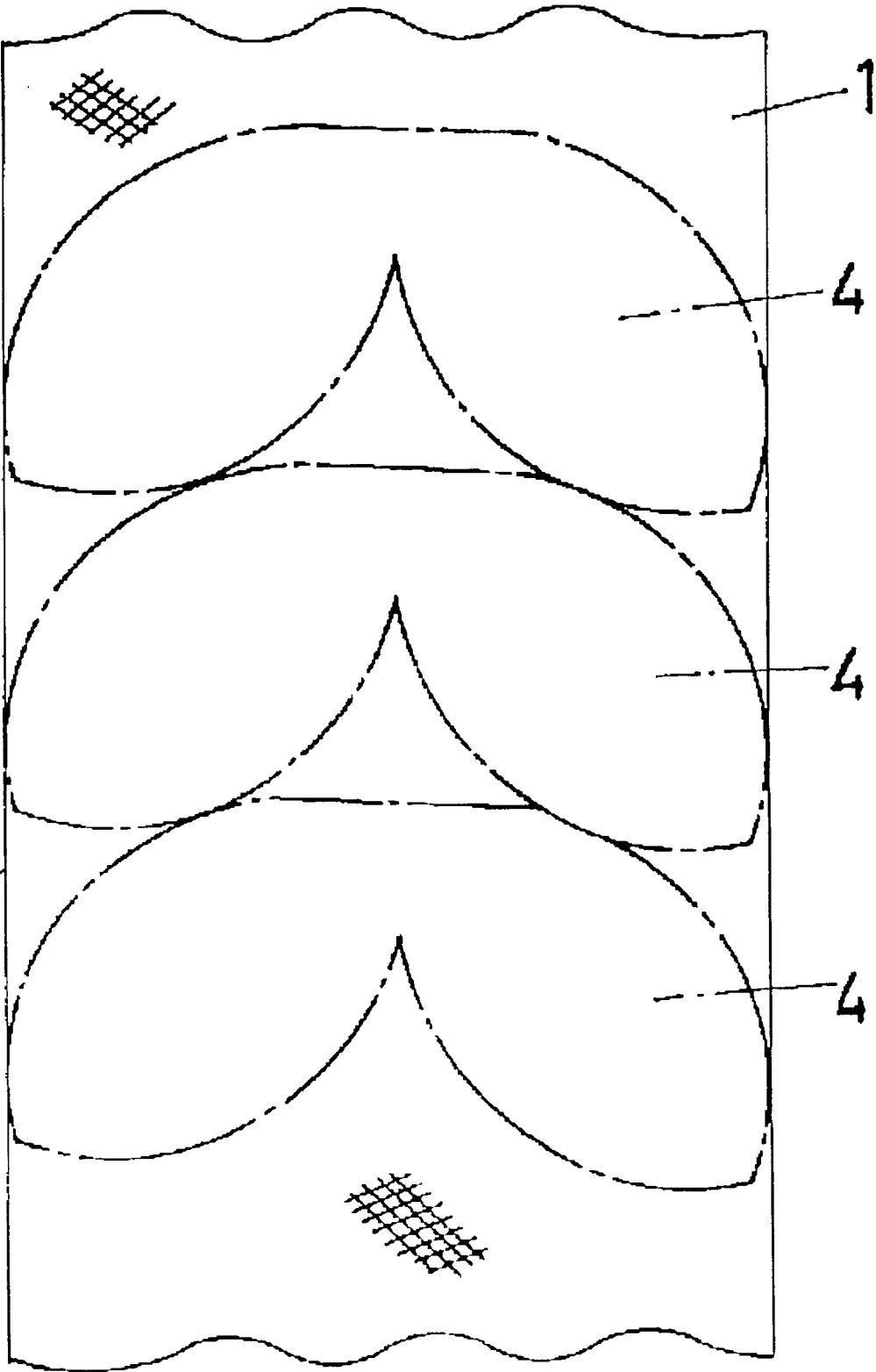
[0017]

[Effect of the Invention] Since this invention sews the corresponding point of the piece of two mesh cloths of the same configuration on

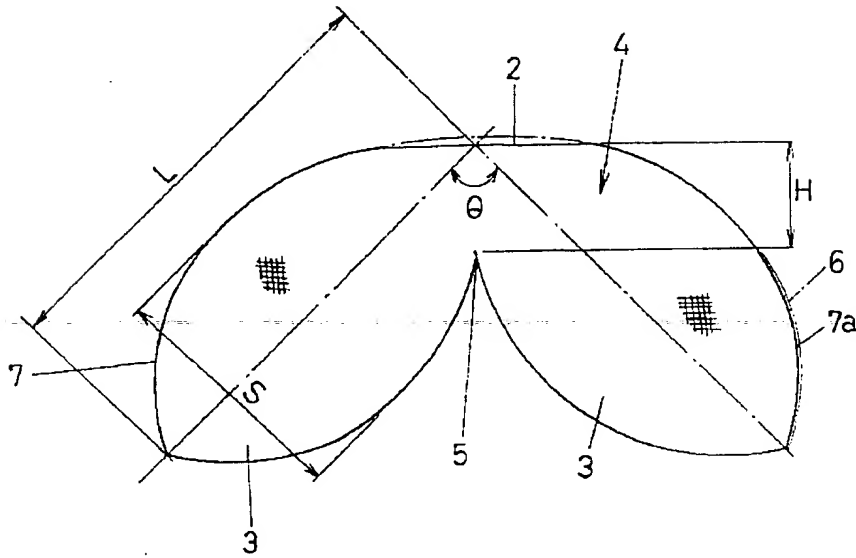
and forms a bag. it is effective in an attaching-by-sewing activity being stabilized very much. Moreover, it is effective in decision being also simple and \*\*\*\*(ing) manufacture manday.  
[0018] Moreover, with the aperture angle of a leaf shape piece, a bag configuration can be selected to arbitration.

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Drawing selection drawing 2

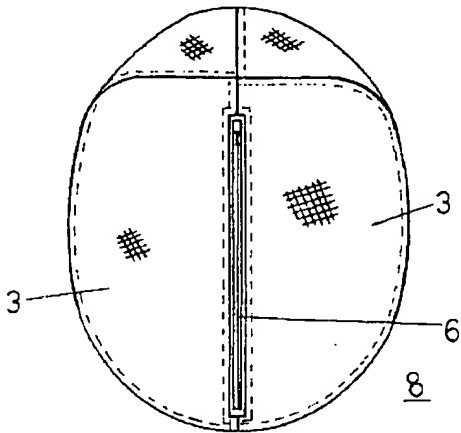


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Drawing selection drawing 3

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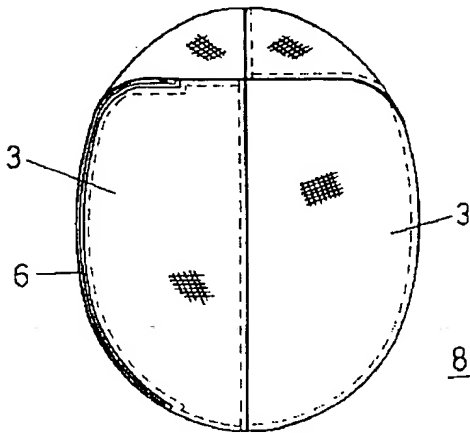


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Drawing selection drawing 4

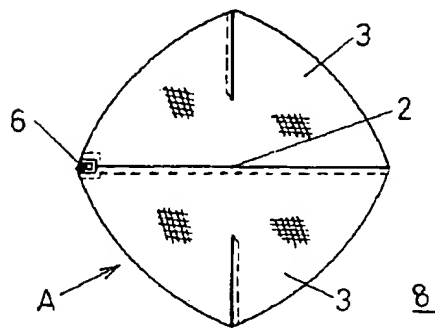
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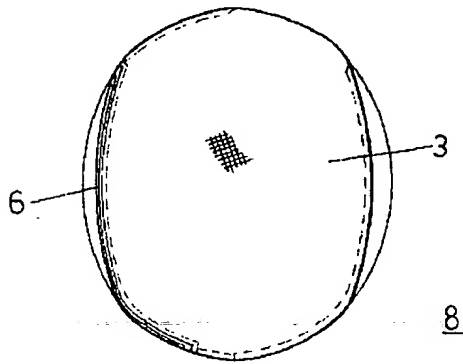
Drawing selection drawing 5



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Drawing selection drawing 6

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